Notebook, N-00-05-25

1900

Phonograph Cylinders
Book # 1.

John Clarence Shingle

1000 100 pts < 400 pts Cuprammonium
5/25/00 120 Stearate Soda

5 pts Gum Benzoin

1001 100 pts < 400 Cuprammonium
5/25/00. 120 Stearate Soda

5 pts Gum Opopanax

Not completely dissolved

glassy.

1002
1/21/00

100 pts < 400 Opp pure rosin
120 Stearate Soda

5 pts Gum Senegal

Does not dissolve just swell up.

1003
1/21/00

100 pts < 400 Opp pure rosin
120 Stearate Soda

5 " Bonair Aloes

1004 100 pts < 400 Oppponorani
5/25/00 120 Stearate Soda

5 " Gum Olibanum

1005 100 pts < 400 Oppponorani
5/25/00 120 Stearate Soda

a - 5 " Gum Mastic

b - 10 " " "

1006
5/25/00

100 pts < 400 [illegible]
120 Stearate Soda

a. 5 pts Ammo
b. 10 " "

glassy.

1007
5/25/00

100 pts < 400 [illegible]
120 Stearate Soda

1 pts Gum Mastic

1008
5/25/00

100 pts < 400 pts Copper rosin
120 " Stearate Soda

5 pts Gum Sagapenum

1009
5/25/00

100 pts < 400 Copper rosin
120 Stearate Soda

5 pts Gum Kino

1010
5/25/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts Gum Guttar

Does not dissolve but changes mixture.

1011
5/25/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts Gum Assafoetida

1012
5/25/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts Gum Benzoin

1013
5/25/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts Gum Sanguis Draconis

1014 100 < 400 Copperrosin
120 Stearate Soda.
5/25/00

5 pts Gum Amalgam

1015
5/25/00 100 < 400 Copperrosin
120 Stearate Soda.

5 pts Gum [illegible]

Does not dissolve but gives
a new property to mixture

1016

5/28/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts - Stearate Iron

[illegible] Sticky

1017

5/25/00 100 pts < 100 [illegible]
120 Stearate Soda

5 pts Stearate Ca

[illegible] Sticky

1018
5/28/00 100 pts < 400 g [illegible]
120 Caustic Soda

5 pts Cinnamon oil

Soft Slicky

1019
5/28/00 100 pts < 400 g [illegible]
120 Caustic Soda

6 pts Rosin oil

Soft Slicky

1020
5/25/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts Castor oil

Soft Sticky

1021
5/31/00 100 pts < 400 [illegible]
120 Stearate Soda

5 pts Linseed oil

Soft Sticky

1022
5/28/00

100 pts < 400 Cuprammonium
120 Ammonia Soda

5 pts paraffine

Soft Sticky

1673
5/31/00 [illegible] rosin heated with
various proportions
[illegible] [illegible]
The best [illegible]
[illegible] treatment with S.

5%
10%
15%

The asphalt goes in very
slowly and not completely
still sticky and not as
hard as plain rosin

1-24

[illegible]

Will now [illegible] with
various proportions of
[illegible] in [illegible]
[illegible] best to be used
[illegible] treatment with S.

5%
10%

The asphalt melts and
after raising temp, slowly
goes in but not completely
Still sticky but not as hard
as plain rosin

1025

5/31/00 Boiled up #1023 - 10% soft Mexican Asphalt with sulphur

5% - Temp. must be kept down or decomposition + froth - sticky

10%

15% - Sticky.

More inclined to froth than with plain resin.

See #1028

10·26

5/31/00 Fused up c̄ 1024 - 10%

Hard Mexican Asphalt

with Sulphur

5% Temp must be kept
down or decomp + froth - sticky - brittle
this harder than 10·26 -

10%

15%

more inclined to froth than plain
resin

Note: #1027-1028-1029

[illegible] a great evolution of NO_2 accompanied by much frothing in such quantity, that makes it impractical.

#1027 & 1028 afterwards settles down to a smooth surface

1027

6/1/00 Used very much [illegible]

treated with various % of

Cuban [illegible] asphalt

5% Cuban

then 5% Sulphur to the above.

then

5% Cuban more

" 5% Sulphur

" 5% Cuban

6/3/00 - 5% Sulphur.

6/4/00 - 5% Cuban

6/5/00 HNO_3:

20 pts Sulphur

20 " Sulphuric

1028

6/1/00 Continuation of #1025
dosing with various things

5% Cuban Asphalt
5% Sulphur
5% Cuban Asphalt
6/2/00 5% Sulphur
6/4/00 5% Cuban Asphalt
5% Sulphur
6/5/00 HNO_3

20 pts Sulphur
20 " Sulphur

Took some time to Harden - too long

1029

6/4/00	100 pts	Rosin wg.
	100 ·	Prime Cuban Asphalt
	10 pts	Sulphur
	10 pts	Sulphur
	10 pts	Sulphur
	40 ·	Stearate Soda
6/5/00	HNO_3.-	

One big froth.
nothing but bubble.

1030
6/4/00 100 pts rosin wg
200 " Prime Cuban Asphalt

10 pts Sulphur
16/5/00 30 " "
40 " "
40 " "
40 " "

N. G. Too much asphalt bad melting point and full of air holes -

Too much Sulphur + asphalt →

1031

6/5/00 200 g rosin wg
20 c.c. Sulphuric acid

6/6/00 150 g. Sulphur
50 " "
50 " "
50 " "
50 " "

6/7/00 50 "

6/7/00 25 g. Cuban Asphalt
25 g. Cuban Asphalt

6/8/00 50 g. Rosin wg.

1032

6/5/00 200 grs rosin wq.

70 c.c. HNO_3

6/6/00 50 g. sulphu.

N. G.

Nothing but Froth

1033

6/13-14/00 Electrolysis of Sodium Humate.

~~a~~- In alkaline sol.

a - acid deposited on positive pole

b - " remaining in sol.

In water Solution

c - acid deposited on positive pole

d - " remaining in sol,

1034
6/13-14/00

Partial Saponification of rosin

a - first portion acids

b - second " acids

1035
6/18/00 50 pts rosin
25 " Sulphur

The above was intimately mixed then placed in hardglass tube and sealed – heated to a temperature of 150 °C for 3 hrs

The proportion of sulphur too great – there being a large excess the sulphurated rosin being entirely different from that made in pan this being transparent & more sticky & softer –

1036

6/19/00 25 pts rosin
10 Cuban Asphalt
5 Sulphur.

Intimately mixed & heated in sealed tube for 3 hrs at temperature of 155° C This was raised to 180°-190° C when explosion occurred.

1037

6/19/00 25 pts rosin
5 " Sulphur

Heated for 6 hours at temperature of 150 – 160° C. No difference from #1035 Twice attempt to raise temperature, First one blew up at temperature of 180° C. Today 6/20/00 safe but did not get above 170° C at any one time.

1038

6/20/00 rosin &
zinc chloride heated in
sealed at temperature of
150 - 160° C for 6 hours.
A change takes place, the
general appearance resembles
wood tar pitch but it is very
sticky and is about half
way between rosin oil &
rosin.

rosin & zinc chloride in
various proportions in
pan - same as above - dissolved
out $ZnCl_2$ with water - residue
sticky

1039
6/21/00

Rosin + conc. HCl in sealed tube.

Gone up

1040

6/21/00 Eosin + dilute HNO_3

in sealed tube

Gone up

/

1041

6/21/00 Toxin & dilute H_2SO_4 in sealed tube

Gone to

1042
6/23-25/00

Chlorinated Naphthalin and sodium resinate in sealed tube. Kept at temp 140 - 150 °C. for 7 hrs. The mass has a homogeneous appearance darker in color and rather fluid.

1043
6/25/00
/23

Chlorinated Naphthaline and Sodium Stearate in sealed tube - Soft greasy ~~fatty~~ compound resulted after heating for 7 hrs at 140° - 150° C.

10/25/00

1044.

Oleic acid treated with HCl gas and stearate soda in sealed tube Heated for 7 hours in sealed at temperature of 140°–150° C. – Soft, greasy mass.

1045-

6/25/00

50 pts Stearate Soda

50 pts Rosin treated with glyc.

This is not sticky apparently but soft - now to harden up.